

Alexandra
Waclawiw

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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: My Chan Tran Examiner #: 78933 Date: 3/12/02
Art Unit: 1641 Phone Number 30 5-6999 Serial Number: 09/738,954
Mail Box and Bldg/Room Location: CMI, 8A16 Results Format Preferred (circle): PAPER DISK E-MAIL
7E12

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Proteomic Analysis

Inventors (please provide full names): Benjamin F. Cravatt, Erik Sorensen,
Matthew P. Patricelli, Martha Lovato and Gregory Adam

Earliest Priority Filing Date: 4/10/2000

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Alex,

Can you please perform the following searches:

- 1) Inventors search
- 2) Search Attached Claims

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Thank you

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1. A method for screening for the bioactivity of a candidate compound toward a group of related target proteins in a proteomic mixture of proteins from a cell, employing at least one probe, each probe characterized by comprising a reactive functionality group specific for said group of target proteins and a ligand and said probe, said method comprising:

(1) combining at least one probe with an untreated portion of said mixture and with a portion inactivated with a non-covalent agent under conditions for reaction with said target proteins;

(2) sequestering proteins conjugated with said at least one probe from each of said mixtures;

(3) determining the proteins that are sequestered; and

(4) comparing the amount of each of the proteins sequestered from the untreated portion and the inactivated portion as indicative of the bioactivity of said candidate compound with said target proteins.

8. A method for screening for the bioactivity of a candidate compound toward a group of related target enzymes in a proteomic mixture of proteins from a cell, employing at least one probe, each probe of the formula

$$R^* (F - L) - X$$

wherein:

X is a ligand for binding to a reciprocal receptor and/or providing a detectable signal;

L is an aliphatic linking group;

F is a functional group reactive at an active site of a target enzyme; and

R is H or a moiety of less than 1kDal providing specific affinity for said enzymes;

the * intends that R is a part of F or L;

said method comprising:

(1) combining at least one probe with an untreated portion of said mixture and with a portion inactivated with a non-covalent agent under conditions for reaction with said target proteins;

(2) sequestering proteins conjugated with said at least one probe from each of said mixtures;

(3) determining the proteins that are sequestered; and

(4) comparing the amount of each of the proteins sequestered from the untreated portion and the inactivated portion as indicative of the bioactivity of said candidate compound with said target proteins.

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